



PUDU Watch User Manual

Model: PWIT11, PWIT21

SHENZHEN PUDU TECHNOLOGY CO., LTD.

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Preface

Objective

This manual introduces the functions and technical specifications of the gourd robot, which is convenient for users to understand and use the gourd robot.





Reader Objects

This manual applies to:

- ☐ Customers
- ☐ Sales Engineer
- ☐ Installation and commissioning engineer
- ☐ Technical Support Engineer

Symbolic conventions

The following signs may appear in this manual and are represented as follows.

Symbol	Descpition
 Danger	Indicates a high potential hazard that, if not avoided, could lead to death or serious injury
 Warning	Indicates a moderate or low potential hazard that, if not avoided, could lead to minor injuries to personnel, destruction of robots, etc
 Caution	Indicates a potential risk that ignoring this text could lead to bot corruption, data loss, or unpredictable results
	The representation is additional information to the main text, which is an emphasis and supplement to the main text

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1. Safety Instructions

Do not bring your watch near a heat source or an exposed source of fire, such as a microwave oven, oven, fire, candle, or other place that may produce high temperatures, so as not to cause the watch to malfunction or explode.

Do not use the watch in a wet or near magnetic field to avoid causing the internal circuit failure of the watch.

Do not rinse or soak the watch directly to avoid damage to the components.

Do not place your watch in direct sunlight.

Do not store or transport your watch in the same box as flammable and explosive items.

Do not cause strong shock or vibration on the watch to avoid watch failure.

Do not remove or modify the built-in battery of the watch yourself to avoid damaging the battery or watch.

Do not treat the watch and its accessories as ordinary household garbage. Please comply with local laws and regulations regarding the handling of this product and its accessories and support recycling actions.

Do not clean your watch with intense chemicals, detergents or strong detergents. Wipe your watch with a clean, dry cloth.

Please do not disassemble or modify the watch and accessories without authorization, otherwise the watch and accessories will not be covered by the company's warranty, please contact Purdue technical support engineers if the watch fails.

Watches have been tested and exhibited in specific environments other than waterproof and dustproof, but the device is not professional waterproof equipment.

Do not use the watch in places where the use of wireless devices is expressly prohibited, as this may interfere with other electronic devices or cause other hazards.

In medical and health care establishments where the use of wireless devices is expressly prohibited, please comply with the rules of the place and turn off the watch.

The radio waves generated by the watch may affect the normal work of implantable medical devices or personal medical devices, such as pacemakers, implanted cochlea, hearing aids, etc. When using the watch, please keep at least 15 cm away from the implanted medical devices (such as pacemakers, implanted cochlea, etc.).

1. Product composition

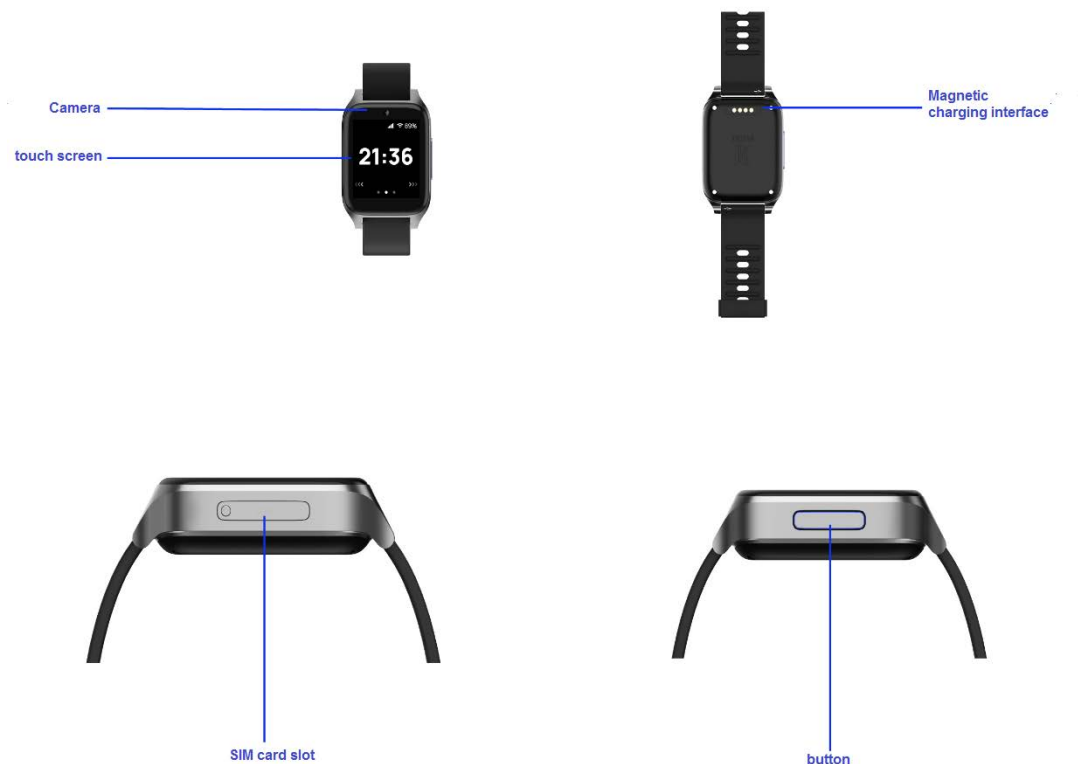
1.1 Introduction

1.2 4G watch is a call notification watch that supports 4G network and Wi-Fi, which needs to be used with Purdue Technology Hora Robot, and its call communication service system is based on cloud central control dispatching platform. After the robot binds the 4G watch information, the robot synchronizes the information to the cloud central control scheduling platform, and when the 4G watch initiates a task request, the request will be sent to the cloud central control scheduling platform, and the cloud central control scheduling platform assigns tasks and dispatches the robot, and the robot receives the task and returns the execution result to the 4G watch through the cloud central control scheduling platform.

Shipping list

PUDU Watch x 1, PUDU Watch User Manual x 1, Certificate of Conformity x 1, Warranty Card x 1, Magnetic Charging Cable x 1.。

1.1 Appearance parts and introduction



Button and screen control description:

operate	Description
Press and hold the button for 3 seconds	Power on, power off, reboot
The main interface slides right	Go to the message list interface
The main interface slides left	Go to the call point list interface
Click the key in the main interface, call point list, or message list interface	Enter the settings interface

1.3 Spec

Features	Description
Power output	5 V, 1 A
Battery capacity	700 mAh
Charging time	1 h
Material	Polymer housing, metal keys and silicone strap
Weight	70 g
Size	41.33mm x 49.74mm x 15.33mm
Screen specifications	1.5 inch IPS touch color display, resolution: 240 x 240
Operating system	Android
Memory	512 MB RAM, 4 GB ROM
Data connections	4G LTE、Wi-Fi、NFC
SIM 卡	Nano
Charging interface	Magnetic charging interface
Service life	5years
Standby current	< 10 mA
Work environment	temperature: 0℃~40℃ humidity: ≤85%RH
Storage environment	temperature: -40℃~65℃ humidity: ≤85%RH

Operating altitude	<2000m
Protection class	IP65

2. Product Use

2.1 Charging

Attach the metal contacts at one end of the charging cable to the metal contacts on the charging port on the back of the watch and lay flat, and connect the USB power adapter at the other end, at which point the charging charge indicator will be displayed on the watch.

2.2 Bind the robot

The watch is not bound to the robot when it is first turned on, and the robot needs to be bound before the next operation can be carried out. The Mac address information appears on the watch when it is first turned on. You can also view the MAC address in the "Settings > About" interface.

Step 1 Press and hold the button on the side of the watch for 3 seconds before the watch boots on.

Step 2 Check the network and connect to Wi-Fi if there is no mobile network.

After the connection is successful, the interface will display the MAC address of the watch.



Step 1 In the "Advanced Settings > Pager Settings" interface of the Hola robot, turn on the "Call Function" and check "4G Call".

Step 2 Click Add on the Advanced Settings > Pager Settings > Call Settings interface of the Holabot. Pop up the interface that binds the pager.

Step 3 Enter the watch Mac address and watch number in the "Bind Pager" interface and click "OK".

Watch numbers are only available in English and numbers, with a maximum of 12 characters.

After the watch is successfully bound, the binding information is synchronized to the cloud central control scheduling platform. The cloud central control scheduling platform will synchronize the robot map information to the watch, and the user can select the map in the "Watch > Settings > Map" interface and call the robot to the specified location on the call point list interface.

Call feature description

Step 1 Click the side button to enter the Settings page.

Step 2 Select a map in the "Settings > Map" interface according to the actual scene.

Step 3 Swipe left on the main interface to enter the "Group list" interface.

Step 4 Select "Group" to enter the call point list interface.

Step 5 Select the call point and press the screen for 0.5 seconds or the side button for 0.5 seconds.

The interface displays "XXX In a Call".



If you need to cancel the call during the call, click "Cancel Call" on the screen and confirm the cancellation twice or press the side button for 1 second to cancel directly.

If the call is successful, the interface is displayed as "Coming" if there is an idle robot, and "Enter queue" if there is no idle robot.

If the call fails, go directly back to the list of call points and the watch vibrates three times shorter.

If you need to check the call status, you can swipe right on the main interface to enter the message list interface to view.

1.4 Bind a calling card

In addition to operating the call robot through the interface, the watch also supports NFC calling. Bind the call card corresponding to the dining table, synchronize the call card information to the robot through the cloud central control scheduling platform, and after the binding is completed, the watch contacts the call card, and the call card can be launched to the robot through the call card.

Step 1 In the "Advanced Settings > Pager Settings" interface of the Hola robot, turn on the "Call Function" and check "4G Call".

Step 2 In the "Advanced Settings > Pager Settings" > Call Card Settings of the Hollister, click "Switch".

Step 3 In the pop-up "Select Call Point" interface, select the table where you need to add the call card, click "OK".

Step 4 Click Add.

A pop-up window that says "Please enter call card number" pops up.

Step 5 Click the side button on the main interface of the watch to enter the "Settings > Bind Call Card" interface.

Step 6 The watch touches the call card, and the interface of the robot "Please enter the call card number" will display the call card number, click "OK".

At this point, the process of binding the call card is complete, and the user can touch the watch to the call card at the corresponding table and initiate a call to the robot through the call card.

Settings

Click the side button on the main interface, call point list or message list interface to enter the setting interface. The setup interface description is shown in the following table.

Settings	Description
WLAN	Turn on Wi-Fi and select the appropriate network connection.
Screen brightness	Pull the slider to adjust the screen brightness.

Settings	Description
Notification alerts	<p>Whether to turn on anchor notifications and vibration notifications.</p> <p>Arrival notifications are turned off by default and are only valid when turned on in the dishwashing room or private room.</p> <p>That is, after the watch in the dishwashing room or private room turns on the "arrival notification", when the robot arrives at the dishwashing room, the watch will receive a notification, and other watches under the same store will not receive the message.</p>
Map	<p>Swipe up and down the screen to select the appropriate map and sync to the robot.</p> <p>When switching maps, make sure you're using the same map under the same store.</p>
Bind a calling card	<p>Bind the calling card and synchronize the call card information to the robot through the cloud central control scheduling platform. After the binding is complete, the watch touches the call card, and you can start a call to the bot through the call card.</p>
Language	<p>Switch languages according to the actual scene.</p>
Date and time	<p>The date and time displayed by the watch will be synchronized according to the time of the cloud central control scheduling platform, and the user can also set the date and time by himself.</p>
Version updates	<p>You can view the current version and check if the current version is the latest version.</p> <p>If it is not the latest version, you can download the latest version to upgrade, and it will automatically restart after the upgrade is complete.</p> <p>Please ensure that the power of the watch is above 20% before upgrading, otherwise it may cause the upgrade to fail.</p>
About	<p>Check the MAC address of the watch, the name of the bound store, the certification information, etc</p>
Factory reset	<p>Please proceed with caution if this action deletes the binding relationship with the store, various settings, etc.</p>

2. Maintenance and upkeep

Maintain parts	Robot status	Checking cycle	Maintenance methods
Pallets, drive wheels and auxiliary wheels	Shutdown	weekly	Use a clean cloth to wipe the surface.
Vision sensors, front-facing cameras, depth vision sensors and lidar	Shutdown	weekl	Please use a cleaning cloth or lens cleaning products for cleaning. If you encounter sudden fouling, please be sure to deal with it in time to avoid obscuring the sensor and causing the robot to run abnormally.
fuselage	Shutdown	monthly	Use a clean cloth to wipe the surface.

3. After Service

Shenzhen PUDU Technology Co., Ltd. promises that during the effective warranty period of the product (the warranty period of different parts of the product may vary), it will provide free product warranty service, and the customer does not need to pay the after-sales service fee. In the case of exceeding the warranty period or not belonging to the free product warranty service, a certain fee will be charged at the normal price. Customers can contact the after-sales service hotline for detailed after-sales service policies and product maintenance matters, and can also refer to the "Hulu Robot User Operation Guide" for detailed after-sales service policies.

PUDU after-sales service hotline: 400-0826-660, after-sales mailbox: techservice@pudutech.com.

15.19 Labeling requirements.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21 Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.105 Information to the user.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Absorption Rate (SAR) information:

Specific absorption rate (SAR):

This Pudu Watch meets the government's requirements for exposure to radio waves. The guidelines are based on standards developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a margin of safety designed to ensure the safety of all people regardless of their age or health.

The FCC Statement of Exposure to RF and the SAR limit for the United States (FCC) is 1.6 W/kg average for each gram of tissue. This device was tested for typical operations of use on the body, with the back of the Watch at 10mm from the Front-of-Face and Watch at 0mm from the Back-of-Wristbands. To maintain compliance with FCC RF exposure requirements, use the Watch at 10mm from the Front-of-Face and Watch at 0mm from the Back-of-Wristbands. The use of belt clips, covers and similar accessories must not contain metallic components in their assembly. The use of accessories that do not meet these requirements may not meet FCC RF exposure requirements and should be avoided.

Functioning in the body

This device was tested for typical operations of use in the body. To comply with RF exposure requirements, use the Watch at 10mm from the Front-of-Face and Watch at 0mm from the Back-of-Wristbands, including the antenna. Third-party accessories such as belt clips, covers and similar accessories used with this device should not contain metallic components, accessories that do not meet these RF exposure requirements and should be avoided from use on the body. Use only the supplied antenna or an approved antenna.